



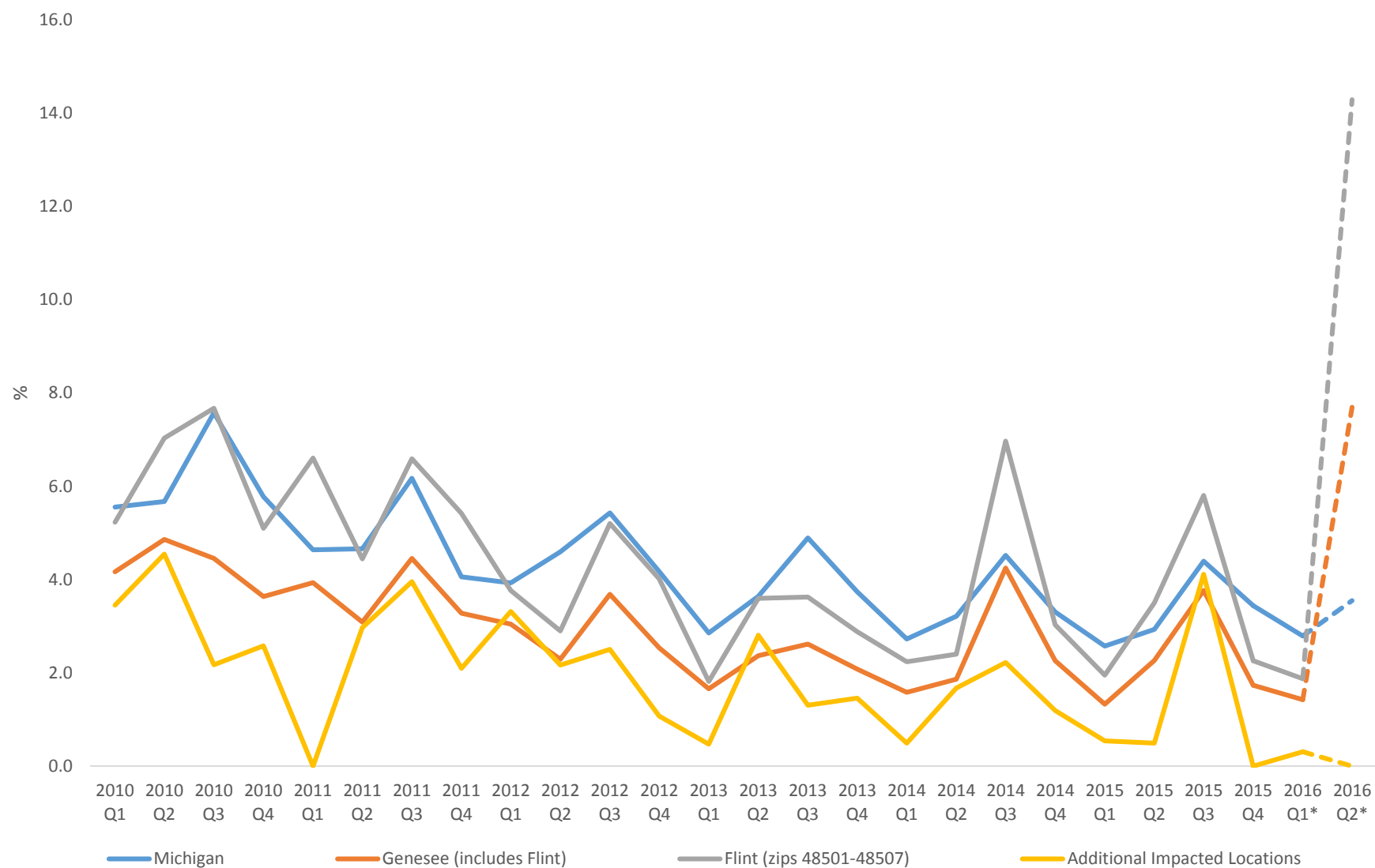
# Michigan Department of Health and Human Services (MDHHS) Blood Lead Level Test Results for Selected Flint Zip Codes, Genesee County, and the State of Michigan Summary as of April 8, 2016

## Executive Summary

This report is generated by MDHHS to track Blood Lead Level test results in Flint, Michigan.

- Blood lead level testing is an important part of our efforts to identify people who have been harmed by drinking water that contained lead. However, MDHHS recognizes that the full community of Flint must be the focus of the public health response.
- People who have had multiple tests are counted only once per year for the annual counts. People counted in 2015 who were tested again after 1/1/2016 are counted in both years.
- Counts on this report include both capillary and venous blood tests.
- As of February 8, 2016, this report will include test results for four additional zip codes (48509, 48519, 48529, and 48532, referred to as “Additional Impacted Locations”) because some addresses in these areas are serviced by water from Flint River.
- Between 10/1/2015 and 4/8/2016, an additional 20,977 people were tested in Flint zip codes 48501-48507 and an additional 2,309 people were tested in the Additional Impacted Locations.
- Continued testing efforts by Genesee County Health Department, MDHHS, and local medical personnel have identified 122 children under age 18 in Flint zip codes 48501-48507 and 5 children under age 18 in an Additional Impacted Location with blood lead levels greater than or equal to 5 mcg/dL (micrograms lead per deciliter of blood) since 10/1/2015.
- Of children younger than 6 years old tested between 10/1/2015 and 4/8/2016, 2.0% from Flint zip codes 48501-48507 and 0.2% from an Additional Impacted Location had blood lead levels greater than or equal to 5 mcg/mL.

# Incidence of elevated blood lead $\geq 5$ mcg/dL among children < 6 years of age by quarter, Michigan, 2010-2016



\* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

\*\*Additional Impacted Locations includes Flint zip codes 48509, 48519, 48529, and 48532.

**Table 1. Incidence of elevated blood lead levels ( $\geq 5$  mcg/dL) among children less than 6 years of age, 2010 – 2016**

		Michigan	Genesee County	Flint 48501-48507	Additional Impacted Locations**
<b>1/1/2010 to 12/31/2010</b>	<b>Total tested for lead</b>	156,014	7,053	3,630	779
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	9,754	306	230	25
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	6.3%	4.3%	6.3%	3.2%
<b>1/1/2011 to 12/31/2011</b>	<b>Total tested for lead</b>	152,333	6,760	3,145	835
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	7,571	252	182	21
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	5.0%	3.7%	5.8%	2.5%
<b>1/1/2012 to 12/31/2012</b>	<b>Total tested for lead</b>	149,037	7,152	3,198	909
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	6,832	210	130	21
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.6%	2.9%	4.1%	2.3%
<b>1/1/2013 to 12/31/2013</b>	<b>Total tested for lead</b>	148,400	7,132	3,142	863
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	5,720	158	96	13
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.9%	2.2%	3.1%	1.5%
<b>1/1/2014 to 12/31/2014</b>	<b>Total tested for lead</b>	143,838	6,820	3,102	880
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	5,051	178	122	13
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.5%	2.6%	3.9%	1.5%
<b>1/1/2015 to 12/31/2015</b>	<b>Total tested for lead*</b>	140,777	6,981	3,387	818
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	4,781	159	111	11
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.4%	2.3%	3.3%	1.3%
<b>10/1/2015 to 4/8/2016</b>	<b>Total tested for lead*</b>	74,843	7,560	4,855	851
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	2,279	118	97	2
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.0%	1.6%	2.0%	0.2%
<b>4/1/2014 to 4/8/2016</b>	<b>Total tested for lead*</b>	251,120	14,484	7,395	1,757
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	8,602	306	211	20
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.4%	2.1%	2.9%	1.1%
<b>1/1/2016 to 4/8/2016</b>	<b>Total tested for lead*</b>	41,327	5,644	3,798	656
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,156	82	73	2
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.8%	1.5%	1.9%	0.3%

\* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

\*\*Additional Impacted Locations includes Flint zip codes 48509, 48519, 48529, and 48532.

**Table 2. Incidence of elevated blood lead levels ( $\geq 5$  mcg/dL) among children 6 to 17 years of age, 2010 – 2016**

		Michigan	Genesee County	Flint 48501-48507	Additional Impacted Locations**
<b>1/1/2010 to 12/31/2010</b>	<b>Total tested for lead</b>	14,729	760	400	76
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	665	17	12	0
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.5%	2.2%	3.0%	0.0%
<b>1/1/2011 to 12/31/2011</b>	<b>Total tested for lead</b>	12,959	959	499	129
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	474	19	13	2
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.7%	2.0%	2.6%	1.6%
<b>1/1/2012 to 12/31/2012</b>	<b>Total tested for lead</b>	12,710	1,259	561	185
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	351	13	9	1
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.8%	1.0%	1.6%	0.5%
<b>1/1/2013 to 12/31/2013</b>	<b>Total tested for lead</b>	11,428	1,109	505	171
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	269	7	3	2
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.4%	0.6%	0.6%	1.2%
<b>1/1/2014 to 12/31/2014</b>	<b>Total tested for lead</b>	10,562	788	372	111
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	285	6	5	1
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.7%	0.8%	1.3%	0.9%
<b>1/1/2015 to 12/31/2015</b>	<b>Total tested for lead*</b>	10,415	1,570	1,084	172
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	253	10	8	1
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.4%	0.6%	0.7%	0.6%
<b>10/1/2015 to 4/8/2016</b>	<b>Total tested for lead*</b>	12,684	7,037	5,590	566
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	178	30	25	3
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	1.4%	0.4%	0.4%	0.5%
<b>4/1/2014 to 4/8/2016</b>	<b>Total tested for lead*</b>	26,739	7,938	5,966	719
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	467	34	28	4
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	1.7%	0.4%	0.5%	0.6%
<b>1/1/2016 to 4/8/2016</b>	<b>Total tested for lead*</b>	9,697	6,169	4,917	498
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	115	24	19	4
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	1.2%	0.4%	0.4%	0.8%

\* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

\*\*Additional Impacted Locations includes Flint zip codes 48509, 48519, 48529, and 48532.

**Table 3. Incidence of elevated blood lead levels ( $\geq 5$  mcg/dL) among adults at least 18 years of age, 2010 – 2016**

		Michigan	Genesee County	Flint 48501-48507	Additional Impacted Locations**
<b>1/1/2010 to 12/31/2010</b>	<b>Total tested for lead</b>	13,681	588	188	67
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,459	42	18	3
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	10.7%	7.1%	9.6%	4.5%
<b>1/1/2011 to 12/31/2011</b>	<b>Total tested for lead</b>	13,112	528	132	50
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,367	43	16	4
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	10.4%	8.1%	12.1%	8.0%
<b>1/1/2012 to 12/31/2012</b>	<b>Total tested for lead</b>	12,914	539	148	54
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,414	33	11	3
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	10.9%	6.1%	7.4%	5.6%
<b>1/1/2013 to 12/31/2013</b>	<b>Total tested for lead</b>	12,081	484	132	54
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,499	54	16	5
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	12.4%	11.2%	12.1%	9.3%
<b>1/1/2014 to 12/31/2014</b>	<b>Total tested for lead</b>	12,574	436	111	47
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,420	44	12	5
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	11.3%	10.1%	10.8%	10.6%
<b>1/1/2015 to 12/31/2015</b>	<b>Total tested for lead*</b>	13,677	1,250	811	88
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,377	48	21	6
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	10.1%	3.8%	2.6%	6.8%
<b>10/1/2015 to 4/8/2016</b>	<b>Total tested for lead*</b>	21,451	12,755	10,532	892
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	980	192	156	12
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.6%	1.5%	1.5%	1.3%
<b>4/1/2014 to 4/8/2016</b>	<b>Total tested for lead*</b>	38,525	13,375	10,705	958
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	2,575	239	168	19
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	6.7%	1.8%	1.6%	2.0%
<b>1/1/2016 to 4/8/2016</b>	<b>Total tested for lead*</b>	17,671	11,955	9,924	842
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	583	168	142	10
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.3%	1.4%	1.4%	1.2%

\* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

\*\*Additional Impacted Locations includes Flint zip codes 48509, 48519, 48529, and 48532.

**Table 4. Total incidence of elevated blood lead levels ( $\geq 5$  mcg/dL), 2010 – 2016**

		Michigan	Genesee County	Flint 48501-48507	Additional Impacted Locations**
<b>1/1/2010 to 12/31/2010</b>	<b>Total tested for lead</b>	184,424	8,401	4,218	922
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	11,878	365	260	28
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	6.4%	4.3%	6.2%	3.0%
<b>1/1/2011 to 12/31/2011</b>	<b>Total tested for lead</b>	178,404	8,247	2,726	1,014
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	9,412	314	211	27
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	5.3%	3.8%	7.7%	2.7%
<b>1/1/2012 to 12/31/2012</b>	<b>Total tested for lead</b>	174,661	8,950	3,907	1,148
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	8,597	256	150	25
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.9%	2.9%	3.8%	2.2%
<b>1/1/2013 to 12/31/2013</b>	<b>Total tested for lead</b>	171,909	8,725	3,779	1,088
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	7,488	219	115	20
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.4%	2.5%	3.0%	1.8%
<b>1/1/2014 to 12/31/2014</b>	<b>Total tested for lead</b>	166,974	8,044	3,585	1,038
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	6,756	228	139	19
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	4.0%	2.8%	3.9%	1.8%
<b>1/1/2015 to 12/31/2015</b>	<b>Total tested for lead*</b>	164,869	9,801	5,282	1,078
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	6,411	217	140	18
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.9%	2.2%	2.7%	1.7%
<b>10/1/2015 to 4/8/2016</b>	<b>Total tested for lead*</b>	108,978	27,352	20,977	2,309
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	3,437	340	278	17
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.2%	1.2%	1.3%	0.7%
<b>4/1/2014 to 4/8/2016</b>	<b>Total tested for lead*</b>	316,384	35,797	24,066	3,434
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	11,644	579	407	43
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	3.7%	1.6%	1.7%	1.3%
<b>1/1/2016 to 4/8/2016</b>	<b>Total tested for lead*</b>	68,695	23,768	18,639	1,996
	<b>Number of test results <math>\geq 5</math> mcg/dL</b>	1,854	274	234	16
	<b>Percent of test results <math>\geq 5</math> mcg/dL</b>	2.7%	1.2%	1.3%	0.8%

\* Data for Quarters 1 and 2 of 2016 are incomplete and subject to change.

\*\*Additional Impacted Locations includes Flint zip codes 48509, 48519, 48529, and 48532.